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DATE MAILED: 11/16/2005

APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,314	10/773,314 02/09/2004		Naoki Otaka	P08137US00/RFH	1073
881	7590	11/16/2005		EXAMINER	
STITES & F	HARBISON	PLLC	PHAN, THO GIA		
1199 NORTH	I FAIRFAX	STREET	ART UNIT	PAPER NUMBER	
SUITE 900	TA 37A 22	214			
ALEXANDR	IA, VA 22314			2821	

Please find below and/or attached an Office communication concerning this application or proceeding.

				AK
		Application No.	Applicant(s)	
		10/773,314	OTAKA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Tho G. Phan	2821	
	The MAILING DATE of this communication	appears on the cover sheet	with the correspondence addr	ess
Period for				
WHICH - Extensi after SI - If NO pi - Failure Any rep	RTENED STATUTORY PERIOD FOR RE IEVER IS LONGER, FROM THE MAILING ons of time may be available under the provisions of 37 CFF X (6) MONTHS from the mailing date of this communication. eriod for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by statly received by the Office later than three months after the m patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUN R 1.136(a). In no event, however, may nod will apply and will expire SIX (6) Mi atute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this commandate of this	
Status				
1)⊠ F	Responsive to communication(s) filed on 2	4 August 2005		
•—	·	This action is non-final.		
	Since this application is in condition for allo		atters, prosecution as to the n	nerits is
	losed in accordance with the practice unde			
Dispositio	n of Claims			
4)⊠ C	Claim(s) <u>11-21</u> is/are pending in the applica	ation.	,	
•	a) Of the above claim(s) is/are without			
	Claim(s) <u>11-14,19 and 20</u> is/are allowed.	• .		
·	Claim(s) <u>15 and 17</u> is/are rejected.			
·	Claim(s) <u>16,18 and 21</u> is/are objected to.		•	
	Claim(s) are subject to restriction an	d/or election requirement.	•	
Applicatio	n Papers		•	
9)□ T	ne specification is objected to by the Exam	niner.		
<i>,</i> —	ne drawing(s) filed on is/are: a) a		to by the Examiner.	
	pplicant may not request that any objection to			
	Replacement drawing sheet(s) including the cor	- ' '		: 1.121(d).
	ne oath or declaration is objected to by the	•	• • •	
Priority un	der 35 U.S.C. § 119			
•	cknowledgment is made of a claim for fore	oian priority under 35 U.S.C.	8 119(a)-(d) or (f)	
a)⊠	. <u> </u>	ingir priority under 55 5.5.5	. 3 1 10(a) (a) or (i).	
. —	. Certified copies of the priority docum	ents have been received		
	. Certified copies of the priority docum		Application No	
	. Copies of the certified copies of the p			tana
	application from the International Bur		on received in this realional of	lage
* Se	e the attached detailed Office action for a		ot received.	
Je	S S ditterior dotterior of the	or and sorting dopied in		
Attachment(s		л п		
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		w Summary (PTO-413) lo(s)/Mail Date	
3) 🔲 Informa	ation Disclosure Statement(s) (PTO-1449 or PTO/SB No(s)/Mail Date		of Informal Patent Application (PTO-1	52)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 15 is rejected under 35 U.S.C. 102(b) as being anticipated by Akira (JP 2001024426) [submitted by Applicant].

Akira in figures 1 and 3 discloses first 1a and second 1b antennas of the same frequency and comprising a radiation electrode forming a ¼ wavelength internal antenna used for a portable or wireless application (see abstract and solution), the antennas being mounted on the substrate 2, each in contact with a respective one of the feeding lines (via 11 and 12), wherein each of the radiation electrode has a base end 5/9, 24/28 connected to a feeding electrode 10 and a floating end forming an open end of the antenna (the top right side edge portion of patch 3 and the top edge portion of patch 7), and wherein the distance between the open ends (the arrow between A and D or the gap between patch 3/7, 23/27) of the two antennas is shorter (figures 1 and 3) than the distance between the base ends.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Akira (JP 2001024426) [submitted by Applicant] in view of Tomomatsu et al (US 2002/0149538).

Akira has been discussed but fails to teach the pattern of the antennas (radiation electrodes) has a meandering shape. However, Tomomatsu et al in figures 1-16 show the pattern of the antennas 22 (radiation electrodes) has a meandering shape. It would have been obvious to provide the pattern of the antennas (radiation electrodes) has a meandering shape as taught by Tomomatsu et al for the purpose of providing a smaller sized antenna, therefore improving its bandwidth (see paragraph [0007]).

Allowable Subject Matter

- 4. Claims 16, 18 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 11-14 and 19-20 are allowed.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho G. Phan whose telephone number is 571-272-1826. The examiner can normally be reached on M-F, 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tho G Phan Primary Examiner Art Unit 2821